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NOTICE OF ALLOWANCE AND FEE(S) DUE

20311

7590

01/26/2010

LUCAS & MERCANTI, LLP 475 PARK AVENUE SOUTH 15TH FLOOR NEW YORK, NY 10016

EXAMINER				
LE, TUNG X				
ART UNIT	PAPER NUMBER			
2821				

DATE MAILED: 01/26/2010

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/560.689	04/04/2007	Kwok Ying Chow	7439.75540	1942

TITLE OF INVENTION: ELECTROLUMINESCENT ELEMENT DRIVING APPARATUS

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	YES	\$755	\$300	\$0	\$1055	04/26/2010

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

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INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where ar in m

indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new maintenance fee notifications. CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)			a) specifying a new corre Not Fee pap	ion of maintenance fees will be mailed to the current correspondence address as w correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.			
475 PARK AVI	ERCANTI, LLP	/2010		Cei	rtificate	of Mailing or Transn	nission deposited with the United class mail in an envelope thove, or being facsimile te indicated below.
15TH FLOOR NEW YORK, N	IY 10016		tran	smitted to the USF	TO (57)	1) 273-2885, on the da	
,			-				(Depositor's name) (Signature)
							(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVENTOR		ATTO	RNEY DOCKET NO.	CONFIRMATION NO.
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nonprovisional	YES	\$755	\$300	\$0		\$1055	04/26/2010
EXAM	IINER	ART UNIT	CLASS-SUBCLASS]			
LE, TU	JNG X	2821	315-224000				
CFR 1.363). Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached. "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required. 3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON			registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed. THE PATENT (print or type)				
recordation as set fort (A) NAME OF ASSI	th in 37 CFR 3.11. Comp GNEE	categories (will not be p	data will appear on the p T a substitute for filing an (B) RESIDENCE: (CIT)	assignment. (and STATE OR (COUNT	RY)	up entity Government
			4b. Payment of Fee(s): (Please first reapply any previously paid issue fee shown above) A check is enclosed. Payment by credit card. Form PTO-2038 is attached. The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number (enclose an extra copy of this form).				
	ns SMALL ENTITY statu	ıs. See 37 CFR 1.27.	b. Applicant is no lon	ger claiming SMA	LL ENT	TITY status. See 37 CF.	R 1.27(g)(2).
NOTE: The Issue Fee an interest as shown by the	nd Publication Fee (if req records of the United Sta	uired) will not be accepte tes Patent and Trademark	ed from anyone other than to Office.	the applicant; a reg	istered a	attorney or agent; or the	assignee or other party in
Authorized Signature	·			Date			
Typed or printed name							
This collection of inform an application. Confiden submitting the complete this form and/or suggest Box 1450, Alexandria, V Alexandria, Virginia 223	tiality is governed by 35 d application form to the ions for reducing this but /irginia 22313-1450. DC	FR 1.311. The informatic U.S.C. 122 and 37 CFR USPTO. Time will vary rden, should be sent to the DONOT SEND FEES OR	on is required to obtain or 1.14. This collection is es y depending upon the indite Chief Information Offic COMPLETED FORMS T	retain a benefit by timated to take 12 vidual case. Any co er, U.S. Patent and O THIS ADDRES:	the publ minutes omment Tradem S. SENI	ic which is to file (and to complete, including s on the amount of tim ark Office, U.S. Depaid TO: Commissioner for	by the USPTO to process), gathering, preparing, and the you require to complete them of Commerce, P.O. or Patents, P.O. Box 1450,

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LUCAS & MER	CANTI, LLP		LE, TU	ING X
475 PARK AVEN	UE SOUTH		ART UNIT	PAPER NUMBER
15TH FLOOR	10016		2821	

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 497 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 497 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

	Application No.	Applicant(s)
	10/560.689	CHOW ET AL.
Notice of Allowability	Examiner	Art Unit
	TUNG X. LE	2821
	TONG X. LE	2021
The MAILING DATE of this communication apperature All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this ap or other appropriate communication IGHTS. This application is subject to	plication. If not included will be mailed in due course. THIS
1. \boxtimes This communication is responsive to <u>amendment submitte</u>	<u>d on 12/31/2009</u> .	
2. ☑ The allowed claim(s) is/are <u>1,2 and 5-9</u> .		
 3. Acknowledgment is made of a claim for foreign priority una) All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority do 	e been received. e been received in Application No	
International Bureau (PCT Rule 17.2(a)).		
* Certified copies not received:		
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		complying with the requirements
4. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give		
5. CORRECTED DRAWINGS (as "replacement sheets") mus	st be submitted.	
(a) \prod including changes required by the Notice of Draftspers	son's Patent Drawing Review (P T O	-948) attached
1) 🔲 hereto or 2) 🔲 to Paper No./Mail Date		
(b) ☐ including changes required by the attached Examiner' Paper No./Mail Date	s Amendment / Comment or in the C	Office action of
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t		
 DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT 		
Attachment(s)		
1. Notice of References Cited (PTO-892)	5. 🔲 Notice of Informal F	Patent Application
2. Notice of Draftperson's Patent Drawing Review (PTO-948)	6. Interview Summary	
3. Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date	Paper No./Mail Da 7. ⊠ Examiner's Amendi	te ment/Comment
Examiner's Comment Regarding Requirement for Deposit of Biological Material		ent of Reasons for Allowance
(David Hung Ver)	9.	
/David Hung Vu/ Primary Examiner, Art Unit 2821		

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DETAILED ACTION

This Office Action is in response to the Applicants' amendment submitted on December 31, 2009. In virtue of this amendment:

- Claims 3-4 are cancelled; and
- Thus, claims 1-2 and 5-9 remain pending in the instant application.

Examiner's Amendment

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

The application has been amended in claim 1 as follows:

Line 14, delete "said" between "the" and "resistor (R1)"; and

Line 16, change "a" to --the--.

Allowable Subject Matter

- 2. Claims 1-2 and 5-9 are allowed.
- 3. The following is an examiner's statement of reasons for allowance:
 Prior art of record fails to disclose or fairly suggest the following limitations:
 - An electroluminescent element driving apparatus including a controlling IC and a
 driving unit ... "wherein between the resistor (R1) and the negative interface pin
 (DC-) are connected with a luminescent diode (LED) and a resistor (R2),
 between the negative electrode of the luminescent diode (LED) and negative
 electrode of the power supply (BAT1) is connected with the current limiting

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resistor (R2), and the negative interface pin (DC-) is connected to the negative electrode of the power supply (BAT1), in combination with the remaining claimed limitations as claimed in independent claim 1 (claims 2 and 7-9 are allowed as being dependent on claim 1).

Page 3

- An electroluminescent element driving apparatus including a controlling IC and a driving unit ... "the positive interface pin (DC+) is connected to the collector of NPN triode (Q2) through the current limiting resistor (R1), the emitter of NPN triode (Q2) is connected to the positive electrode of the power supply (BAT1), which constitutes a charging loop; and a current limiting resistor (R4) is connected to the base of NPN triode (Q2) and the negative electrode of Zener diode (ZD), the positive electrode of Zener diode (ZD) is connected to the negative electrode of power supply (BAT1), which constitutes the voltage comparison circuit" as claimed in independent claim 5.
- An electroluminescent element driving apparatus including a controlling IC and a driving unit ... "the output end (OUT) of the controlling IC is connected to the light control end (HON) of the electroluminescent element driving unit, between the trigging pin (TG) end of the controlling IC and the ground is connected with a trigger switch, between the inductance incoming end (COIL) of the electroluminescent element driving unit and the positive electrode of the power supply (BAT1) is connected with an inductor (L1)" ... as claimed in independent claim 6.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

4. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Prior art Green et al. (U.S. Patent No. 7,321,201 B2) discloses basic halogen converter IC.

Prior art Kuhlmann et al. (U.S. Patent No. 7,015,654 B1) discloses light emitting diode driver circuit and method.

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to TUNG X. LE whose telephone number is (571)272-6010. The examiner can normally be reached on 8:30 AM - 5:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Douglas Owens can be reached on 571-272-1662. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should

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you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

TXL 01/16/2010

/David Hung Vu/ Primary Examiner, Art Unit 2821